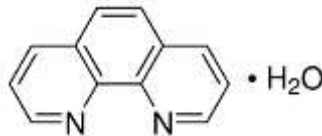


1,10-PHENANTHROLINE (MONOHYDRATE) AR REDOX INDICATOR

| | | |
|------------------------------------|--|---|
| PRODUCT CODE | 313545 | |
| SYNONYMS | (o-Phenanthroline) | |
| C.I. NO. | -- | |
| CASR NO. | (5144-89-8) | |
| ATOMIC OR MOLECULAR FORMULA | C₁₂H₈N₂.H₂O |  |
| ATOMIC OR MOLECULAR WEIGHT | 198.23 | |
| PROPERTIES | -- | |



| PARAMETER | LIMIT |
|---|---|
| Description | White crystals or crystalline powder, becoming cream coloured on storage. |
| Solubility | Slightly soluble in water, soluble in ethanol. |
| Minimum Assay (Non- aqueous) | 99.5% |
| Melting Point | Not below 98°C |
| Minimum Sensitivity as Reagent for Iron | Equivalent to a molar absorptivity of 11,700 for the ferrous complex. |
| Sensitivity as Redox Indicator | Passes test. |
| Solution | Passes test. |

| MAXIMUM LIMIT OF IMPURITY | |
|----------------------------------|-------|
| Sulphated ash | 0.05% |

Note(s) : Assay (if applicable) method mentioned.

| | |
|---|---------------------|
| DANGER | |
| Hazard statements : Toxic if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. | IMDG Code : 6.1/III |
| Precautionary statements | UN No. : 2811 |
| Prevention : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. | IATA : 6.1 |
| Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician. Rinse mouth. Collect spillage. | |

Disposal: The chemical should be mixed combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber

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|---|
| Hazard Pictogram(s) : |
|   |
| <p>GHS06 GHS09</p> |

Replace date 17-June-2023